

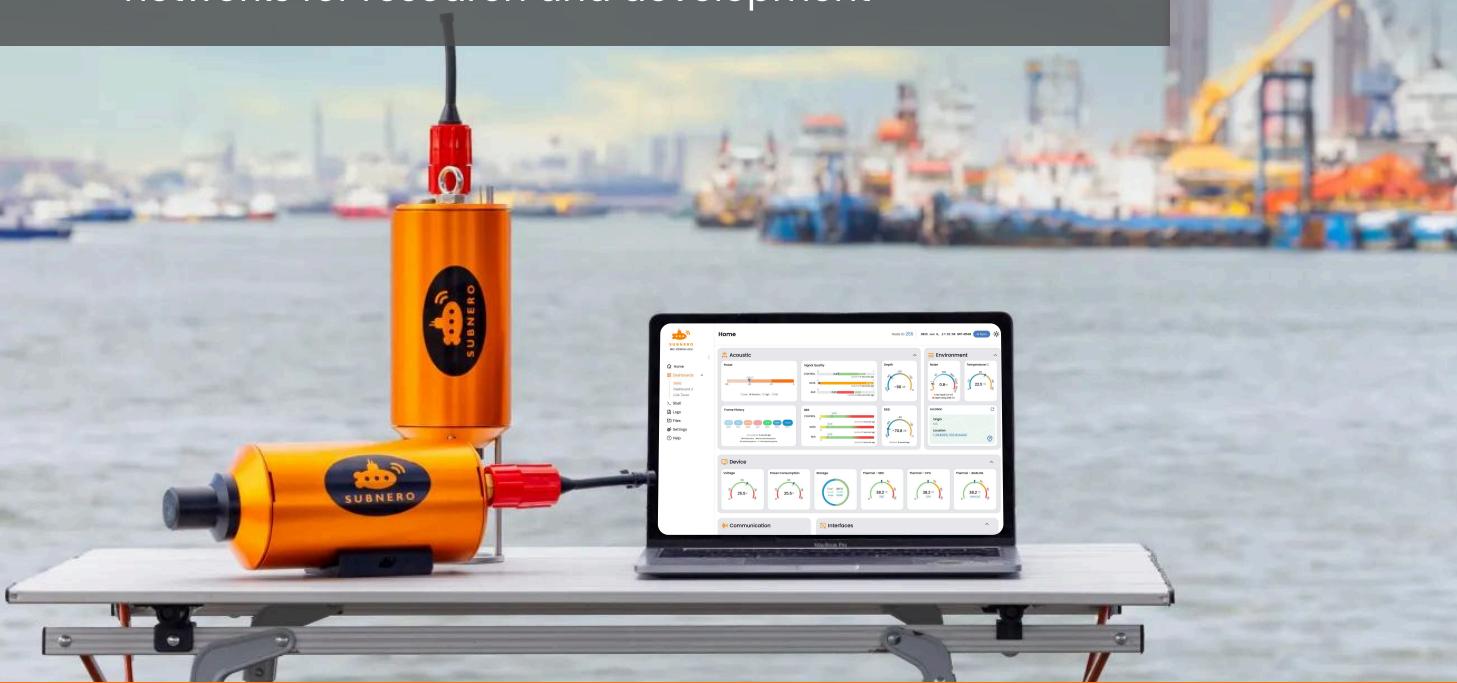
SUBNERO

SUBNERO S40H SERIES MODEMS

High-speed connectivity for data-intensive
underwater applications

APPLICATIONS

- ✓ Wireless image transfer for inspection and monitoring systems
- ✓ High-speed data offload from subsea instruments, AUVs, or sensor arrays
- ✓ Near real-time connectivity for marine and subsea robots
- ✓ Short-range underwater IoT and testbed networks for research and development



EXTREME PERFORMANCE

Up to 33 kbps or ~1 km in challenging conditions.

SOFTWARE-DEFINED DESIGN

Flexible, in-field configurable performance powered by UnetStack.

WIRELESS IMAGE TRANSFER

Enables wireless camera image transfer with high-throughput capability.

HYBRID AUVS & SENSORS

Enabling high-speed data transfer for hybrid vehicles and sensors.

BUILT-IN NETWORKING

Integrated network stack for large-scale underwater networks.

RESEARCH PLATFORM

Ideal R&D platform for developing novel high-speed subsea algorithms and applications.



S40H SERIES MODEMS

Designed for high-throughput data transfer, the S40H series modem enables applications that were once impractical in the subsea domain — such as wireless camera image transmission, rapid sensor data exchange, and real-time connectivity for marine robotics.

TECHNICAL SPECIFICATION

COMMUNICATION

Modulation (software defined)	PSK-OFDM, FH-BFSK
FEC (Forward Error Correction)	LDPC, BCH, Convolution code
JANUS support	Yes
Bandwidth	25 kHz (25 – 50 kHz)

SOFTWARE

Framework	UnetStack
User Interface	Interactive web UI
Software Interfaces	Java, Groovy, Python, C, JavaScript, Julia, JSON/TCP

ELECTRICAL

Power source	18 – 30 VDC (24 VDC recommended)
Power consumption	< 4 W (receive mode, nominal) < 45 W (transmit mode, avg.) < 150 mW (sleep mode) < 1 mW (deep sleep mode)
Wake up modes	Acoustic wake up External electrical interrupt Scheduled wake up
External interface	Ethernet (10/100 Mbps), RS232
On-board storage	256 GB, 1 TB

MECHANICAL

Hull material	Aluminum, Stainless steel
Depth rating	300m, 2000m
Dimensions	SC: Ø 100 x 294 mm, OC: Ø 88 x 137 mm
Weight (in air / water)	SC: 2.0 / 0.8 kg, OC: 0.65 kg / NA
Available Configurations	Standalone Configuration (SC) Open Configuration (OC)

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